Premarket Notification Blackstone Medical, Inc. Blackstone ™ Spinal Fixation System 4.5mm Multi-Axial Screw (System Addition)

> page 1 of 2 KO20674

510(K) SUMMARY OF SAFETY AND EFFECTIVENESS

Name of Firm:

Blackstone Medical, Inc.

90 Brookdale Drive

Springfield, MA 01104

510(k) Contact:

Alan Lombardo

Director of Engineering

Trade Name:

BlackstoneTM Spinal Fixation System

4.5mm Multi-Axial Screw (System Addition)

Common Name:

Rod and screw spinal instrumentation

Device Product Code & Classification:

MNH 888,3070 - Spondylolisthesis Spinal

Fixation Device System

KWQ 888.3060 - Spinal Intervertebral Body Fixation

Orthosis

MNI 888.3070 - Pedicle Screw Spinal System

Substantially

Equivalent Devices:

DePuy Motech Moss Miami Spinal System (K980477,

K982320).

Device Description:

The BlackstoneTM Spinal Fixation System 4.5mm Multi-Axial Screw is a titanium alloy; multiple component system comprised of a variety of non-sterile, single use components that allow the surgeon to build a spinal implant construct. The system is attached to the vertebral body by means of screws to the non-cervical spine.

The BlackstoneTM Spinal Fixation System consists of an assortment of screws and rods which have received 510k clearance (K994217, K013558 & K003735). The 4.5mm Multi-Axial Screws are new implant offerings, which are an adjunct and are fully interchangeable with the Spinal Fixation System (K994217, K013558 & K003735).

page 20f2 Kodo674 Premarket Notification Blackstone Medical, Inc. Blackstone TM Spinal Fixation System 4.5mm Multi-Axial Screw (System Addition)

Intended Use / Indications for Use:

Blackstone Spinal Fixation System is intended for non-cervical use in the spine.

The Blackstone Spinal Fixation System, when used for pedicle screw fixation, is intended only for patients:

- a) Having severe spondylolisthesis (Grades 3 and 4) at the L5-S1 joint;
- b) Who are receiving fusion using autogenous bone graft only;
- c) Who are having the device fixed or attached to the lumbar and sacral spine (L3 and below); and
- d) Who are having the device removed after the development of a solid fusion mass.

The Blackstone Spinal Fixation System, when used as a pedicle screw system in skeletally mature patients, is intended to provide immobilization and stabilization of spinal segments, as an adjunct to fusion, in treatment of the following acute and chronic instabilities or deformities of the thoracic, lumbar and sacral spine:

- a) Degenerative spondylolisthesis with objective evidence of neurologic impairment;
- b) Fracture;
- c) Dislocation;
- d) Scoliosis;
- e) Kyphosis;
- f) Spinal tumor; and
- g) Failed previous fusion (pseudarthrosis).

The Blackstone Spinal Fixation System, when used for anterolateral non-pedicle fixation, is intended for the following indications:

- a) Degenerative disc disease (as defined as back pain of discogenic origin with degenerative disc confirmed by patient history and radiographic studies);
- b) Spinal stenosis:
- c) Spondylolisthesis;
- d) Spinal deformities (i.e., scoliosis, kyphosis, and/or lordosis);
- e) Pseudarthrosis:
- f) Tumor;
- g) Trauma (i.e., fracture or dislocation);
- h) Previous failed fusion.

BASIS OF SUBSTANTIAL EQUIVALENCE:

The BlackstoneTM 4.5mm Multi-Axial Screw by its very nature is substantially equivalent to the DePuy Motech Moss Miami Spinal System (K980477, K982320) which has been cleared by FDA for certain anterior and pedicle fixation use indications.





Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Alan Lombardo Director, Engineering Blackstone Medical, Inc. 90 Brookdale Drive Springfield, MA 01104

APR 0 3 2002

Re: K020674

Trade/Device Name: Blackstone Spinal Fixation System 4.5mm Multi-Axial Screw

Regulation Number: 21 CFR 888.3060, 21 CFR, 888.3070

Regulation Name: Spinal intervertebral body fixation orthosis, spondylolisthesis spinal

fixation device system, pedicle screw spinal system

Regulatory Class: Class II

Product Codes: KWQ, MNH, MNI

Dated: February 26, 2002 Received: March 1, 2002

Dear Mr. Lombardo:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Page 2 – Mr. Alan Lombardo

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 21 CFR Part 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4659. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html

Sincerely yours,

Celia M. Witten, Ph.D., M.D.

Director

Division of General, Restorative and Neurological Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

Premarket Notification Blackstone Medical, Inc. Blackstone™Spinal Fixation System 4.5mm Multi-Axial Screw (System Addition)

510(k) Number: K020674

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Device Name: BlackstoneTM Spinal Fixation System

Indications for Use:

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c) Spondylolisthesis;

d) Spinal deformities (i.e., scoliosis, kyphosis, and/or lordosis);

Summary

(Division Sign-Off)
Division of General, Restorative and Neurological Devices

020674

Revision 1

510(k) Number___

Premarket Notification Blackstone Medical, Inc. Blackstone TM Spinal Fixation System 4.5mm Multi-Axial Screw (System Addition)

e)	Pseudarthrosis;
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f) Tumor;

g) Trauma (i.e., fracture or dislocation);

h) Previous failed fusion.

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Concurrence of CDRH, Office of device Evaluation

Prescription Use

OR

Over-The-Counter Use

(Per 21 CFR801.109

(Division Sign-Off)

Division of General, Restorative

and Neurological Devices

510(k) Number

KO20674